



REMOTELY ACTUATED BRAKE FOR SLIDE-OUT MECHANISM

ABSTRACT

The present invention relates to a vehicle having a fixed room and a slide-out room which extends and retracts relative to the fixed room. The fixed room includes a floor section, sidewall sections, and a roof section, and the slide-out room includes a floor section, sidewall sections, and a roof section. A slide-out extension mechanism extends and retracts the slide-out room in a cantilevered manner. In a fully retracted position, the roof section and two of the sidewall sections of the slide-out room are typically concealed from exterior view, and a third sidewall section of the slide-out room forms a portion of the sidewall section of the fixed room. Furthermore, the floor section of the slide-out room is flush with the floor section of the fixed room, and proximal ends of the sidewall sections of the slide-out room are flush with an inner surface of one of the sidewall sections of the fixed room when the slide-out room is fully extended. The slide-out extension mechanism includes a first elongated member which is secured to the fixed room and a second elongated member which is slidably coupled to the first elongated member. The second elongated member is secured to the slide-out room such that extension and retraction of the second elongated member causes the slide-out room to similarly extend and retract. In order to preferentially strengthen the second elongated tube in the z direction, the second elongated tube includes a first tube fastened to a second tube. An electric motor and brake are coupled to the second elongated member and operate in combination to selectively retract, extend and lock the second elongated member. The slide-out room in the event the motor is inoperable. The manual override system includes a remote brake release system to remotely release the brake.